

Solar Tire Pressure Monitoring System

User Manual

Important Notice: Be sure to power on the main unit before installing the sensors.

Illustrations in this manual are for reference only.

Please refer to the actual product.

I. Installation and Usage Guide

1 Long press «↔» power button for 3 seconds to turn on

Long press for 3 seconds to power on/off



2 Install the anti-theft nut (see Fig a)



Fig a Turn the anti-theft nut clockwise to the base of the tire valve

3 Install the sensor (see Fig b)



Fig b Quickly screw the sensor clockwise. Air leakage during installation is normal. It will stop after the sensor is tightened.

4 Lock the anti theft nut (see Fig c)

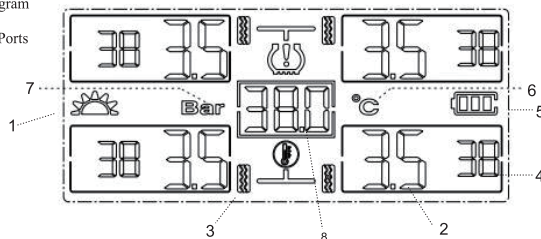


Fig c Use the wrench to turn the anti-theft nut counterclockwise to secure the sensor

II. Display Interface Diagram

A Display Description / Ports

- 1 Solar charging
- 2 Tire pressure
- 3 Tire position
- 4 Tire temperature
- 5 Battery level
- 6 Temperature unit
- 7 Pressure unit
- 8 Cabin temperature



B Button Functions

☐ Type-C charging port / Receiver charging interface

☐ Left button (long press in standby mode to power on/off)

☐ Unit switch button (press once to switch pressure and temperature units)

☐ Sound off button (press once during alarm to mute the alarm sound)

III. Tire Pressure Parameters

Item	Component	External Sensor	Internal Sensor	Display Unit
Operating Frequency		433.9200MHz±0.1MHz		
Operating Voltage		3V	3V	3.7V
Operating Current	Standby Current	≤1uA	Standby Current ≤1uA	Standby Current ≤50uA
	Operating Current	≤15mA	Operating Current ≤15mA	Operating Current ≤5mA
Operating Environment	Temperature	-20°C~+80°C	-40°C~+120°C	-40°C~+70°C
Monitoring Range	Temperature	-40°C~+120°C		
	Pressure	0Bar~+9.9Bar / 0PSI~+144PSI		
Accuracy	Temperature	±2°C		
	Pressure	±0.1Bar		

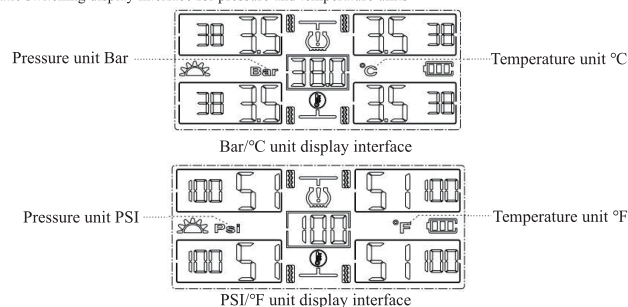
IV. Unit Switching

a Short press the "M" button to automatically switch pressure and temperature units



Press once to switch units

b Automatic switching display interface for pressure and temperature units



V. Battery Replacement

When replacing the sensor battery, please remove and install the casing one by one. Do not mix or replace multiple at the same time. This helps avoid incorrect installation of sensor casings on the wrong tire positions.
(Button cell CR1632, operating temperature range -20°C~70°C)

- 1 Prepare a wrench before removing the sensor. Turn the nut clockwise to separate it from the sensor, then unscrew the sensor counterclockwise
- 2 Use a wrench to turn the top cover of the sensor counterclockwise to remove it
- 3 Remove the old battery from the battery clip and dispose of it properly
- 4 Identify the correct polarity (positive "+" side facing up), install the new CR1632 lithium battery
- 5 Screw the top cover back onto the sensor and tighten it clockwise with the wrench



a Select the sensor



b Unscrew the top cover with a wrench



c Insert the new battery and screw the cover on, then install it onto the valve stem (battery text side facing up)

FCC ID:2BDZM-T19

FCC Statement

Any changes or modifications not expressly approved by the party responsible for compliance could void the

user's authority to operate the equipment.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and

(2) this device must accept any interference received, including interference that may cause undesired operation.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful

interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to

radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be

determined by turning the equipment off and on, the user is encouraged to try to correct the interference by

one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

*RF warning for Mobile device:

This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. This device

should be installed and operated with minimum distance 20cm between the radiator & your body.